

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
19 February 2004 (19.02.2004)

PCT

(10) International Publication Number
WO 2004/014391 A1

- (51) International Patent Classification⁷: **A61K 31/55**, A61P 27/16
- (21) International Application Number: PCT/EP2003/008669
- (22) International Filing Date: 5 August 2003 (05.08.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
0218243.4 6 August 2002 (06.08.2002) GB
0218244.2 6 August 2002 (06.08.2002) GB
- (71) Applicant (*for all designated States except AT, US*): NO-VARTIS AG [CH/CH]; Lichtstrasse 35, CH-4056 Basel (CH).
- (71) Applicant (*for AT only*): NOVARTIS PHARMA GMBH [AT/AT]; Brunner Strasse 59, A-1230 Vienna (AT).
- (72) Inventor; and
- (75) Inventor/Applicant (*for US only*): SCHMUTZ, Markus [CH/CH]; Baumgartenweg 24, CH-4124 Schoenenbuch (CH).
- (74) Agent: GRUBB, Philip; Novartis AG, Corporate Intellectual Property, CH-4002 Basel (CH).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LT, LU, LV, MA, MD, MK, MN, MX, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SE, SG, SK, SY, TJ, TM, TN, TR, TT, UA, US, UZ, VC, VN, YU, ZA, ZW.
- (84) Designated States (*regional*): Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR).
- Published:
— with international search report
— with amended claims and statement
- Date of publication of the amended claims and statement:
15 April 2004
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*



WO 2004/014391 A1

(54) Title: USE OF CARBOXAMIDES FOR THE TREATMENT OF TINNITUS

(57) Abstract: The present invention relates to the use of carbamazepine derivatives in treating tinnitus.

Statement under Art. 19(1):

Claim 6 was removed from the amended set of claims and the following claims renumbered.

Ladies and Gentlemen

We received from the ISA the ISR dated January 02, 2004. We wish to amend the claims of the International Application under Art. 19 PCT as specified herein.

Please replace pages 9 to 11 on file by the enclosed amended retyped pages 9 to 11. In addition, please find enclosed draft pages 9 to 11 with indicated amendments.

All amendments are to be regarded as suggestions only and do not mean that any subject matter that has been removed from the claims is regarded as being unpatentable.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/08669

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K31/55 A61P27/16

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 751 129 A (PORTELA & CA S A) 2 January 1997 (1997-01-02) page 2, column 2 -page 3, column 4 claims 1,2,5	6
X	EP 0 646 374 A (CIBA GEIGY AG) 5 April 1995 (1995-04-05) page 2, line 3 - line 5 claims 1-3	6
X	WO 00 01416 A (BIALER MEIR ;YAGEN BORIS (IL); SINTOV AMNON (IL); VOLOSOV ANDREW () 13 January 2000 (2000-01-13) page 5, line 10 - line 13	6

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

- *T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the International search

10 December 2003

Date of mailing of the International search report

02/01/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3016

Authorized officer

Albayrak, T

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/08669

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0751129	A	02-01-1997	PT 101732 A	31-01-1997
			AT 173468 T	15-12-1998
			AU 705388 B2	20-05-1999
			AU 6310696 A	05-02-1997
			BR 9602933 A	28-04-1998
			CA 2180301 A1	31-12-1996
			CN 1193965 A , B	23-09-1998
			DE 69600985 D1	24-12-1998
			DE 69600985 T2	15-04-1999
			DK 751129 T3	02-08-1999
			EP 0751129 A1	02-01-1997
			ES 2124612 T3	01-02-1999
			WO 9702250 A1	23-01-1997
			HU 9900172 A2	28-04-1999
			JP 9110836 A	28-04-1997
			PL 324313 A1	25-05-1998
			RU 2168502 C2	10-06-2001
			SI 751129 T1	28-02-1999
			TR 9701734 T1	21-04-1998
			US 5753646 A	19-05-1998
EP 0646374	A	05-04-1995	AT 164762 T	15-04-1998
			AU 678492 B2	29-05-1997
			AU 7157194 A	23-03-1995
			CA 2131495 A1	09-03-1995
			DE 59405627 D1	14-05-1998
			EP 0646374 A1	05-04-1995
			ES 2115188 T3	16-06-1998
			IL 110863 A	28-10-1999
			JP 7165584 A	27-06-1995
			NZ 264407 A	21-12-1995
			PH 30478 A	28-05-1997
			SG 44498 A1	19-12-1997
			US 5472714 A	05-12-1995
			US 5695782 A	09-12-1997
			ZA 9406874 A	24-04-1995
WO 0001416	A	13-01-2000	IL 125244 A	01-12-2002
			AU 4531099 A	24-01-2000
			EP 1094842 A1	02-05-2001
			WO 0001416 A1	13-01-2000